## Nuclear Waste Program Summary 2005 – 2007 Program Plan

Program Mission: To lead the effective and efficient clean up of the United States Department of Energy's Hanford Site; to ensure sound management of mixed hazardous wastes in Washington; and, to protect the state's air, water and land at and adjacent to the Hanford site.

Priority of Washington State: Improve the Quality of Natural Resources.					
Activity	Desired Results	Strategies	Accountability Measures		
What We Do	What We Want To Achieve	How We Will Do It	How We Will Measure Success		
Hanford Waste Management: Safe management, including storage, treatment, and disposal of radioactive mixed waste at the Hanford Site and Non-Hanford facilities	<ul> <li>Complete the investigation of the US Ecology site by 2008.</li> <li>Complete reviews and modifications of the Hanford Low Level Burial Ground permit.</li> <li>Continue Transuranic waste shipments to the Waste Isolation Pilot Plant to reduce hazards and environmental impact on Hanford.</li> </ul>	<ul> <li>Provide technical support in the selection and development of groundwater monitoring to support the Remidial Investigation/ Feasability Study</li> <li>Complete Notice of Deficiency workshops by August 2005</li> <li>Continued tracking of Tri-Party Agreement M-91 milestones for storage, treatment, processing and disposal</li> </ul>	<ul> <li>Issuance of a Record of Decision amendment for the Hanford UP-1 interest area.</li> <li>Groundwater Monitoring and Closure Plans completed by December 2005</li> <li>Shipment of Contact Handled Transuranic waste from Hanford to Waste Isolation Pilot Plant.</li> </ul>		
Hanford Facility Transition: Decommission large complex facilities throughout Hanford which require coordination of multiple regulatory and technical requirements for transition to safe and stable conditions.	<ul> <li>Transition all of Hanford's 100 Area reactors to Interim Safe Storage by 2012.</li> <li>Transition Hanford's 300 Area by 2015</li> <li>Hanford Plutonium Finishing Plant (PFP) – Complete transition of PFP by 2016.</li> <li>Decommission Fast Flux Test Facility (FFTF) by 2011.</li> <li>Off-Hanford Facility - Framatome ponds – Close the storage lagoons by August 2006</li> </ul>	<ul> <li>Ensure compliance with requirement to complete Interim Safe Storage (ISS) process at the 105-H reactor by December 31, 2005.</li> <li>Approve a schedule for disposition of surplus facilities in the 300 Area by December 2005.</li> <li>Ensure transition of the PFP 232-Z building by September 2006.</li> <li>Ensure completion of FFTF sodium drain by Sept 2009.</li> <li>Ensure compliance with the closure schedule included in the Framatome consent decree.</li> </ul>	<ul> <li>105-H Reactor will be in a safe and stable condition until final disposition.</li> <li>USDOE will begin disposition of 300 Area facilities per the approved schedule.</li> <li>232-Z Buidling transitioned to Slab-on-Grade.</li> <li>All sodium drained from FFTF reactor.</li> <li>Close the Framatome storage lagoons by August 8, 2006.</li> </ul>		

## Nuclear Waste Program Summary 2005 – 2007 Program Plan

Program Mission: To lead the effective and efficient clean up of the United States Department of Energy's Hanford Site; to ensure sound management of mixed hazardous wastes in Washington; and, to protect the state's air, water and land at and adjacent to the Hanford site.

POG Result: Improve the Quality of Natural Resources.					
Activity	Desired Results	Strategies	Accountability Measures		
What We Do Hanford Tank Waste Storage: Ensure safe tank operations and safe storage of tank wastes leading to closure of 177 Hanford tanks by 2028.	<ul> <li>What We Want To Achieve</li> <li>Improve safety of Double Shell         Tank (DST) System operations             through permitting of the system             by July 2006.     </li> <li>Complete development of the             Single Shell Tank (SST) System             Closure Plan before completion of             the Tank Waste Comprehensive             Environmental Impact Statement             (June 2007)</li> <li>Complete retrieval of the Hanford             "C"-SST Farm</li> </ul>	<ul> <li>Review the permit application, write the permit, and issue the permit by July 2006.</li> <li>Review, approve, and issue the draft closure plan for public comment on schedule</li> <li>Review and provide comment for retrieval data reports, as submitted.</li> </ul>	<ul> <li>How We Will Measure Success</li> <li>The DST system will be operated under specific permit requirements rather than the current interim status requirements.</li> <li>Three large and four small single shell tanks will be empty, interim closed, and ready for final closure by June 2005</li> <li>"C"-SST Farm will be retrieved and prepared for further closure actions.</li> </ul>		
Hanford Tank Waste Disposal: Treat and dispose Hanford's High Level Radioactive Tank Waste by 2028.	<ul> <li>Complete hot commissioning of the Hanford Tank Waste Treatment Facility by January 2011.</li> <li>Develop and begin implementing an approach to treat low activity tank waste that will not be treated in the Waste Treatment Plant by December 2006.</li> <li>Establish a system for interim storage and transportation of immobilized high level tank waste, and disposal of immobilized low activity tank waste.</li> </ul>	<ul> <li>All treatment plant permit packages and permit modifications submitted by USDOE are reviewed and approved by Ecology.</li> <li>Develop and implement a decision matrix for treatment selection and support document review required in the research and development permit for supplemental treatment of low activity tank waste</li> <li>Support permitting of storage and disposal facilities</li> </ul>	<ul> <li>Construction of the Waste Treatment Facility continues on the critical path schedule.</li> <li>Complete Ecology's evaluation and decision on additional low activity treatment technologies by December 2006.</li> <li>Integrated Disposal Facility and Canister Storage building proceed on schedule</li> </ul>		

## Nuclear Waste Program Summary 2005 – 2007 Program Plan

Program Mission: To lead the effective and efficient clean up of the United States Department of Energy's Hanford Site; to ensure sound management of mixed hazardous wastes in Washington; and, to protect the state's air, water and land at and adjacent to the Hanford site.

POG Result: Improve the Quality of Natural Resources.					
Activity	Desired Results	Strategies	Accountability Measures		
What We Do	What We Want To Achieve	How We Will Do It	How We Will Measure Success		
Hanford	<ul> <li>Clean Hanford's 100 Areas, which</li> </ul>	<ul> <li>Annual revision &amp; approval of</li> </ul>	<ul> <li>Remove and dispose of</li> </ul>		
Environmental	are along the Columbia River, to	remedial action workplans to	500,000 tons of		
Restoration:	allow for unrestricted surface use	authorize on-going cleanup	contaminated soil per year.		
Restore the public use of	by 2012, and to prevent further	activities, consistent with current			
the air, soil and water at	groundwater contamination. The	cleanup standards and best			
Hanford and remove or	objective for contaminated	available technologies			
reduce the risks	groundwater is to restore the				
associated with past	groundwater to its highest		Remediate 3 sites that are		
Hanford activities to	beneficial use by 2018.	Approve remedial design for 3 high	high risk to groundwater by		
people and the	The target for Hanford's 200 Area	risk waste sites by March 2006.	Sept. 2006. Close out 20		
environment.	soil waste sites, which are on the	Approve in 2005, an Action Memo	waste sites (out of 700		
	central plateau, is to prevent	to authorize cleanup at 60 shallow	total) per year each year.		
	contaminant spread by stabilizing	soil waste sites. Approve all	Complete cleanup of		
	existing contamination by 2024.	Remedial Investigation/Feasability	Hanford 200 Area soil		
	The target for groundwater is to	Study reports by 2008.	waste sites by 2024.		
	restore it to its highest beneficial				
	use by 2024 through				
	implementation of the Hanford		Groundwater cleanup		
	Groundwater Strategy.	Review the groundwater feasibility	alternative is identified in		
	The target for Hanford's waste	study in 2007, review and approve	2007, a network to monitor		
	sites and facilities adjacent to	a revised monitoring network in	cleanup progress is		
	north Richland (300 Area) is to	2007, and review and approve a	approved in 2007, and		
	remediate groundwater by 2018.	groundwater cleanup plan by 2012.	cleanup starts by 2012.		